Electronic position indicators

direct drive, 5-digit display, technopolymer













































High-resistance polyamide based (PA) technopolymer.

Case in the following colours:

- C2: RAL 2004 orange, glossy finish.
- C3: RAL 7035 grey, glossy finish.

Available on request in RAL 7021 grey-black colour (C1).

Cover with perfectly sealed gasket and AISI 304 stainless steel UNI 6955 type self-tapping screws with six-lobe socket TORX® T06 (registered trademark by TEXTRON INC.).

The ultrasonic welding between the base and the case prevents separation and avoids dust and liquid penetration.

BOSS

AISI 304 stainless steel with DIA 0.500 (Ø 12.7 mm) reamed hole, fitting to shaft by means of AISI 304 stainless steel grub screw, hexagon socket and cup end, included in the supply.

WINDOW

Transparent polyamide based (PA-T) technopolymer, moulded over the case and with a perfect seal. Resistant to solvents, oils, greases and other chemical agents (avoid contact with alcohol during cleaning operations).

DISPLAY

- 5-digit LCD of 0.31 (8.0 mm) height and special characters.
- The visualization parameters can be set and modified by the operator by means of appropriate keys:
- values displayed in mm, inches or degrees
- display of mode for use (absolute or incremental mode)
- reading orientation (right or reverse).

KEYBOARD

Polyester membrane. Resistant to solvents, alcohol, acids, alkalis.

INTERNAL GASKET

O-ring front sealing in NBR synthetic rubber between the case and the boss.

Brass bushing with double O-ring sealing in NBR synthetic rubber inside the rear cavity of the base (DD51-E-SST-IP67).

REAR GASKET

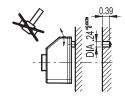
Foam polyethylene, included in the supply.

STANDARD EXECUTIONS

- DD51-E-SST-IP65: completely sealed indicator with IP 65 protection class, see IEC 529 table (page A-19).
- DD51-E-SST-IP67: completely sealed indicator with IP 67 protection class, see IEC 529 table (page A-19), obtained by means of a brass bushing with double seal ring inside the rear cavity of the base.

ASSEMBLY INSTRUCTIONS

- 1. Drill a DIA 0.24 by 0.39 (Ø 6 by 10 mm) hole in the body of the machine with a 0.87 (22 mm) centre distance from the shaft to fit the rear referring pin.
- 2. Fit the indicator onto the shaft and make sure that the referring pin
- 3. Clamp the boss to the shaft by tightening the grub screw with hexagon socket and cup end.

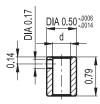






ELESA Original design

ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY) RB51-SST: AISI 304 stainless steel reduction sleeves.



B51-SST INOX STANLESS INC		X STAINLESS INCH
Code	Description	d
CE995941	RB51 1/2-1/4 SST-304	0.250+.0006
CE995956	RB51 1/2-3/8-SST-304	0.375+.0008



592

FEATURES AND APPLICATIONS

DD51-E position indicators, with battery power supply, can be used on passing through shafts in any position to provide the reading of the absolute or incremental positioning of a machine component.

The 5-digit display of 0.31 (8,0 mm) height ensures excellent readability even from a distance and from different viewing angles.

The window in transparent technopolymer protects the LCD display against accidental shocks.

The high protection class, IP 65 or IP67, makes the indicator suitable for applications that require frequent washing, even with water jets.

In the operating mode, by using the 3 function keys, it is possible to select the incremental or the absolute mode, the unit of measure (mm, inches or degrees), reset the absolute counter or load a preset source value and the preset offset value.

In the programming mode, through the 3 function keys, it is possible to program the reading after one revolution of the shaft, the direction of rotation, the diplay orientation, the resolution (number of decimal digits displayed), the source value and the offset value, the max. speed of rotation and set the functions of the keys among different options

The internal battery ensures long battery life (over 5 years). A special symbol appears on the display when it is necessary to replace the battery. The replacement can be performed easily by removing the front cover (Fig.1), without disassembly of the indicator from the control shaft and without the loss of configuration parameters.

Further technical information available in Operating instructions.

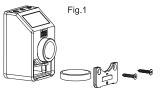
Mechanical and electrical characteristics			
Tension feed	Lithium battery CR2450 3.0 V		
Battery life	5 years		
Display	5-digit LCD of 8 mm height and		
Reading scale	-19999; 99999		
Number of decimal digits	programmable (1)		
Unit of management	mm. inches, degrees		
Unit of measure	programmable (1)		
Detetion many and d	300/600/1000 r.p.m ⁽²⁾		
Rotation max. speed	programmable (1)		
Precision	10.000 impulses / revolution		
Protection class	IP65 o IP67		
Working temperature	0 ÷ 50 °C		
Storing temperature	-20 ÷ +60 °C		
Relative humidity	Max. 95% at 25°C without con- densation		
Interference protection	IEC 61326-1		

- (1) See the operating instructions.
- (2) Default: 600 r.p.m.

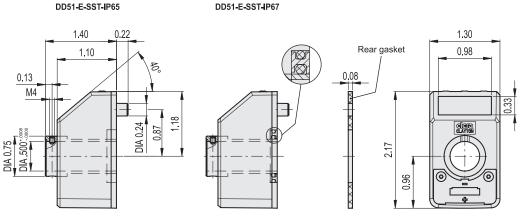
Higher rotation speed to 600 r.p.m. can be mantained for short periods of time.

The value of the max. speed affects the battery life.









C2 RAL2004

Code	Description	$\Delta^{\prime}\!\Delta$
CE999002	DD51-E-SST-IP65 F.1/2-C2	0.15
CE999001	DD51-E-SST-IP65 F.1/2-C3	0.15
CE999012	DD51-E-SST-IP67 F.1/2-C2	0.16
CE999011	DD51-E-SST-IP67 F.1/2-C3	0.16



INCH

INOX⁸

































